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WINDOWS 10 FUNCTIONALITY AND SUPPORT WINDOWS 11

How to Check Public IP Address Using Command Line In Windows 10/Windows 11



By Usman Khurshid | February 24, 2022 | 4 Comments

An IP address is used to identify a computer in a network. There are mainly two types of IP addresses:

1. Local Network (LAN) IP address or Local IP address or Private IP address or Internal IP address.
2. The Public IP address or External IP address

The private IP is the one that is used within a local area network. This IP is used to identify the computer within the LAN. This private IP can't be accessed directly from the Internet.

Also, read about [how to check the mac address of your computer or any remote computer in the network.](#)

Public or External IP address is the one provided by your Internet Service Provider (ISP). Multiple computers can have a single public IP if a network is set up using a technique called NAT (Network Address Translation). Since public IP is normally not provided free of cost, people use a mixture of

private IP addresses that connect to a single public IP address to run the Internet on every network computer in a private network.

Please note that a single computer can have multiple LAN and public IP addresses. Let's find out how we can find the private and public IP addresses in Windows using command-line options.

Find my IP Address (Local Area Network)

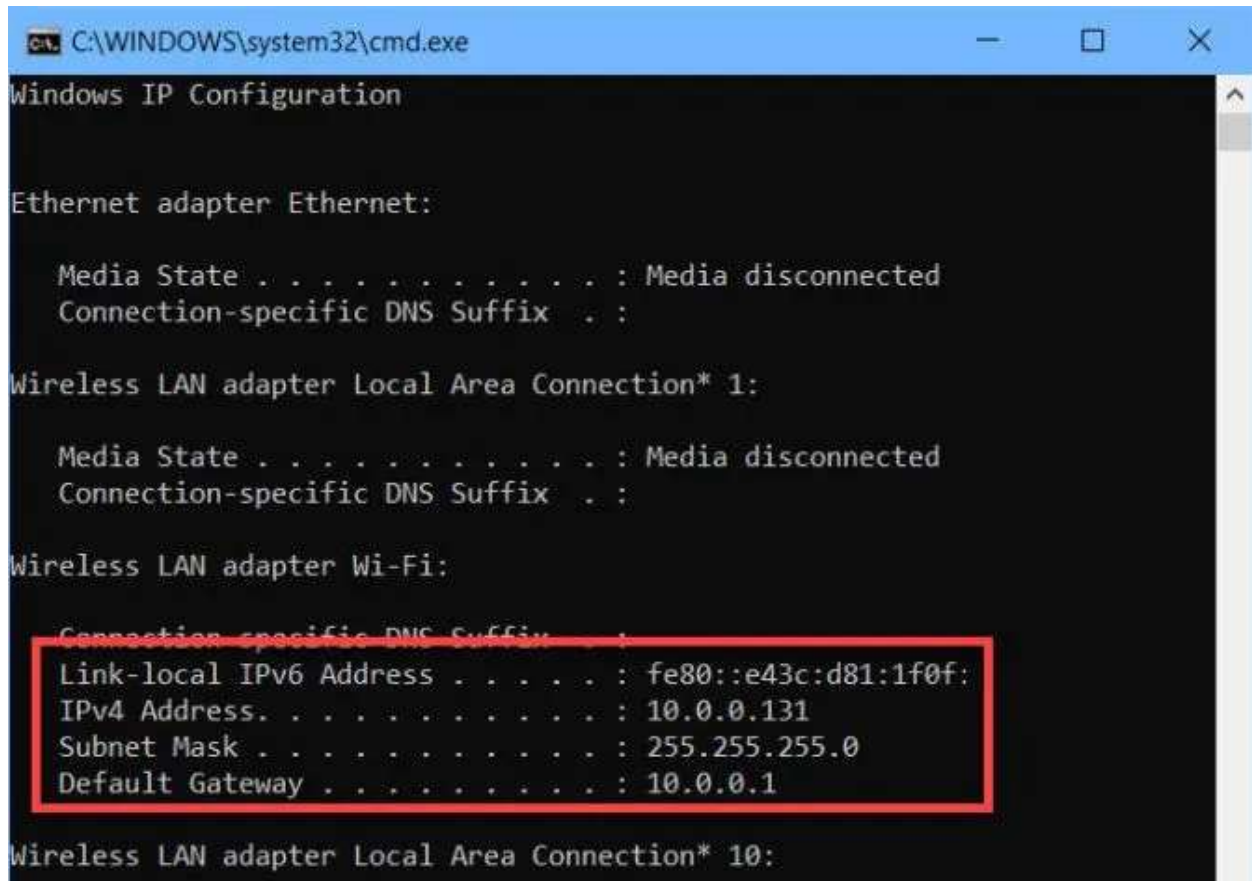
If you want to know about the network information of your computer, you can get it from multiple locations. Let's list down some of the locations and then we'll go through the command-line option.

- Windows Settings → Network & Internet
- Control Panel → Network and Sharing Center
- Task Manager → Performance tab

Now let's see how you can get all the network-related information using Command Prompt:

1. Open command prompt by going to Run → cmd.
2. Run the following command for IP address lookup:

ipconfig

A screenshot of a Windows Command Prompt window titled "C:\WINDOWS\system32\cmd.exe". The window displays the output of the "ipconfig" command. It shows details for three network adapters: Ethernet adapter Ethernet, Wireless LAN adapter Local Area Connection* 1, and Wireless LAN adapter Wi-Fi. The Ethernet and the first Wireless LAN adapter are both shown as "Media disconnected". The Wi-Fi adapter is active and its configuration is highlighted with a red rectangular box. The highlighted information includes: "Connection-specific DNS Suffix" (blank), "Link-local IPv6 Address" (fe80::e43c:d81:1f0f:), "IPv4 Address" (10.0.0.131), "Subnet Mask" (255.255.255.0), and "Default Gateway" (10.0.0.1). Below the highlighted section, the start of the configuration for "Wireless LAN adapter Local Area Connection* 10:" is visible.

```
C:\WINDOWS\system32\cmd.exe
Windows IP Configuration

Ethernet adapter Ethernet:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 1:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::e43c:d81:1f0f:
    IPv4 Address. . . . . : 10.0.0.131
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.0.0.1

Wireless LAN adapter Local Area Connection* 10:
```

ipconfig

This will show you the summary of all the connected network interfaces including their assigned IP addresses.

If you want complete information of all the network interfaces on your computer, you can run the following command:

```
ipconfig /all
```

Get your public IP address using command-line

Sometimes we need to verify what our external IP address is. Let's see how we can get the public IP information using command-line in Windows.

Please note that you need to be connected to the Internet to use the below-mentioned commands and services.

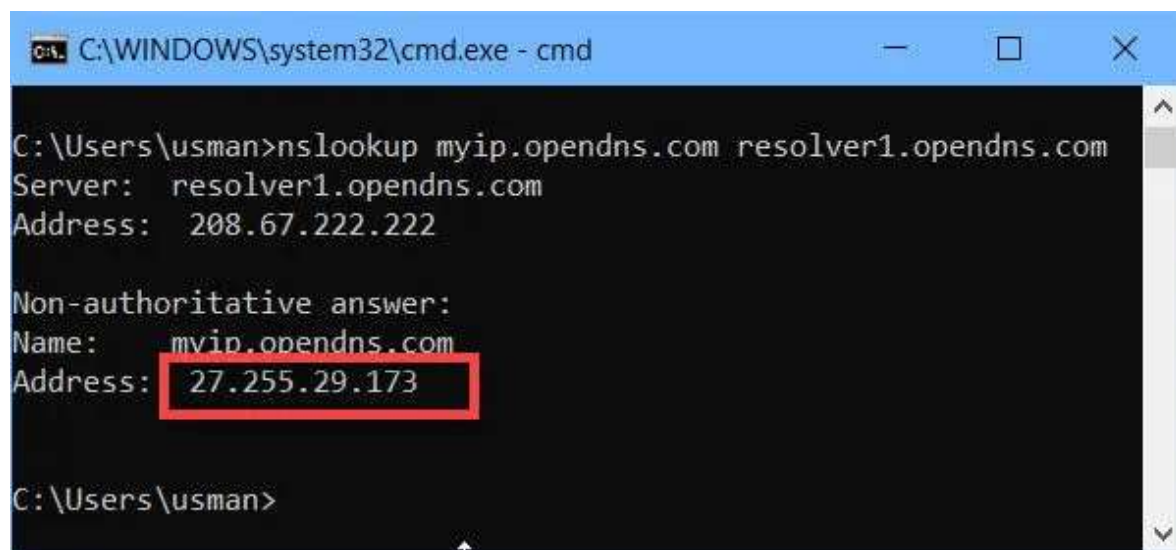
If you have a home network, you can run these commands on one device even if multiple devices are connected to the Internet. They should all have the same public IP.

Find your public IP address using Command Prompt

You can get public IP information using the command `nslookup` and the OpenDNS service. Just run the following command on your command prompt and you will get your external IP address.

The following command will get you the public IP address of your computer:

```
nslookup myip.opendns.com resolver1.opendns.com
```

A screenshot of a Windows Command Prompt window. The title bar reads 'C:\WINDOWS\system32\cmd.exe - cmd'. The command prompt shows the command 'C:\Users\usman>nslookup myip.opendns.com resolver1.opendns.com' being entered. The output is: 'Server: resolver1.opendns.com', 'Address: 208.67.222.222', 'Non-authoritative answer:', 'Name: myip.opendns.com', and 'Address: 27.255.29.173'. The IP address '27.255.29.173' is highlighted with a red rectangular box. The prompt ends with 'C:\Users\usman>'.

```
C:\WINDOWS\system32\cmd.exe - cmd
C:\Users\usman>nslookup myip.opendns.com resolver1.opendns.com
Server: resolver1.opendns.com
Address: 208.67.222.222

Non-authoritative answer:
Name: myip.opendns.com
Address: 27.255.29.173

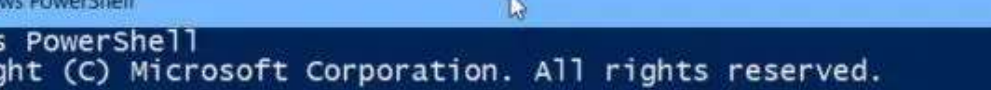
C:\Users\usman>
```

↑
nslookup external IP address

Find public IP address of your computer using PowerShell

You can also use PowerShell to get the external/public IP without using any third-party IP lookup tool.

```
(Invoke-WebRequest ifconfig.me/ip).Content.Trim()
```



The screenshot shows a Windows PowerShell window with a blue title bar. The text inside the window is as follows:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\usman> (Invoke-WebRequest ifconfig.me/ip).Content.Trim()
27.255.29.173
PS C:\Users\usman>
```

Get your computer public IP address using third-party services

- [Google.com](https://www.google.com/search?q=my+ip) – Search for “my ip” and Google will show you the public IP of your device.
- [Whatismyip.com](https://whatismyip.com) – Shows a wealth of information about the network including the external IP. What is my IP command line is also available through their API service.
- [Myexternalip.com](https://myexternalip.com) – Simply outputs the public IP in plain text.
- [Icanhazip.com](https://icanhazip.com) – Outputs public IP in text format.
- ifconfig.me – Displays a wealth of information including public IP, user agent, port used, language, etc.

When in doubt, you can always go to your router, which displays the exact information about the public IP and other network info assigned from your ISP. I hope this has been informative for you. Please let us know in the comments section below if any information is missing.

Also see:

- [How To Quickly Find Mac Address In Windows 10](#)
- [How To Open RDP Port To Allow Remote Desktop Access To Your System](#)
- [Check If a Remote Network Port Is Open Using Command Line](#)
- [How to Set Up Remote Desktop Over the Internet on Windows 10](#)
- [How to set static IP address and DNS Server using Command Line in Windows 10](#)

**Usman Khurshid**

Usman Khurshid is a seasoned IT Pro with over 15 years of experience in the IT industry. He has experience in everything from IT support, helpdesk, sysadmin, network admin, and cloud computing. He is also certified in Microsoft Technologies (MCTS and MCSA) and also Cisco Certified Professional in Routing and Switching.



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4 Comments

Larry says:

From Windows 10, Linux, or OSX command line:

```
curl ifconfig.me
```

```
curl ifconfig.me/all
```

```
curl ifconfig.me/all.json
```

Reply

Alan says:

Thank you, Usman. This was very helpful in a recent on-call pinch I was in.

-Alan

Reply

John Veldhuis says:

In some cases it is necessary to use
(Invoke-WebRequest -UseBasicParsing ifconfig.me/ip).Content.Trim()

Reply

Win10Geek says:

If you want to check and log public IP address changes on your computer, you can use Public IP Logger. I'm using Public IP Logger and loving the tool :)

<https://github.com/ingram1987/Public-IP-Logger>

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